

ABSTRACT OF THE DISCLOSURE

Photothermographic materials are designed with increased
photospeed by chemical sensitizing the photosensitive silver halide grains with a
5 combination of compounds. A first chemical sensitizer is a specific gold(III)-
containing compound and a second chemical sensitizer is a sulfur-containing
compound that is a diphenylphosphine sulfide. The molar ratio of the gold (III)-
containing compound to the sulfur-containing compound is at least 1:1.